

5.0 credits	30.0 h	2q
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Teacher(s) :	Barbarin Jérôme ;
Language :	Anglais
Place of the course	Louvain-la-Neuve
Prerequisites :	<i>The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.</i>
Main themes :	After an introduction to term structure of interest rates and risk measure, the main tools of ALM are presented in a deterministic and a stochastic framework. In a second part, these techniques are applied to various practical problems of ALM in insurance. The theoretical part is completed with reference papers and exercises
Aims :	The aim of this course is to present the basic principles of Asset and Liability management applied to insurance companies. At the end of the course, the students must know the ALM methods and understand the main ALM problems of an insurance companies <i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i>
Evaluation methods :	Case study
Content :	The following topics will be covered: -- Assets and Liabilities of an insurance company and their associated risks -- ALM tools of first generation (statistic deterministic analysis) -- Off-Balance sheet instruments and their uses in ALM -- ALM tools of second generation (stress testing) -- ALM of third generation (stochastic models) -- Performance measures and Risk Measures (Value at Risk and others) -- Economic capital and Regulatory Capital (Solvency II)
Bibliography :	Slides will be provided through icampus.
Faculty or entity in charge:	LSBA

Programmes / formations proposant cette unité d'enseignement (UE)				
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [120] in Actuarial Science	ACTU2M	5	LINMA2725 and LACTU2020 and LACTU2040 and LACTU2050 and LACTU2070 and LACTU2080	
Master [120] in Business Engineering	INGM2M	5	-	
Master [120] in Business engineering	INGE2M	5	-	